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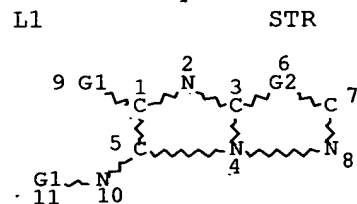
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FILE COVERS 1907 - 11 Apr 2005 VOL 142 ISS 16  
 FILE LAST UPDATED: 10 Apr 2005 (20050410/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

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VAR G1=AK/CY  
 VAR G2=C/N  
 NODE ATTRIBUTES:  
 DEFAULT MLEVEL IS ATOM  
 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:  
 RING(S) ARE ISOLATED OR EMBEDDED  
 NUMBER OF NODES IS 11

STEREO ATTRIBUTES: NONE

L3 130 SEA FILE=REGISTRY SSS FUL L1  
 L4 19 SEA FILE=HCAPLUS ABB=ON PLU=ON L3  
 L5 11 SEA FILE=HCAPLUS ABB=ON PLU=ON L4 AND PD=<OCTOBER 8, 1999

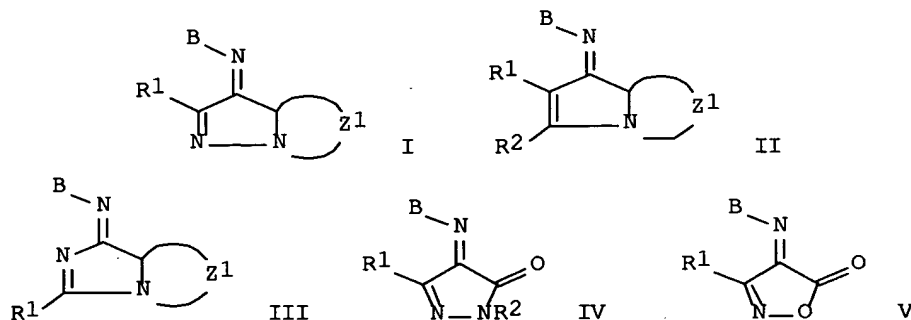
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=> d ibib abs hitstr 15 1-11

L5 ANSWER 1 OF 11 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1999:235926 HCAPLUS Full-text  
 DOCUMENT NUMBER: 130:304094  
 TITLE: Optical recording material and optical recording method using the same  
 INVENTOR(S): Honda, Mari; Onishi, Akira; Tanaka, Tatsuo; Nakayama, Yoriko  
 PATENT ASSIGNEE(S): Konica Co., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 30 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11099745	A2	19990413	JP 1997-261904	19970926 <--
PRIORITY APPLN. INFO.: GI			JP 1997-261904	19970926

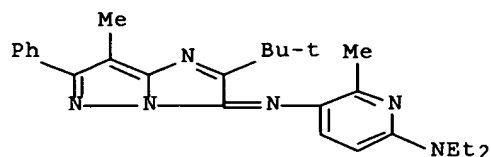


AB The optical recording material contains a metal complex dye represented by a general formula  $M-(-Dye)m1(A1)n1$  [ $M$  = metal ion; Dye = dye selected from I, II, III, IV, and V;  $A1$  = anion;  $m1 = 1, 2, 3$ ;  $n1 = 0, 1, 2, 3$ ;  $B$  = aromatic carbon ring, heterocyclyl;  $R1, R2 = H$ , monovalent substituent;  $Z1 = 5$ - or  $6$ -membered  $N$ -containing heterocyclyl] in a recording layer. The material shows excellent characteristics and storage stability.

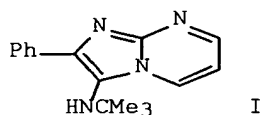
IT **222846-89-1D**, nickel beta diketone complex  
 RL: DEV (Device component use); USES (Uses)  
 (metal complex dye in recording layer of optical recording material)

RN 222846-89-1 HCAPLUS

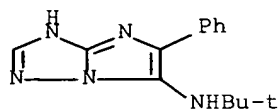
CN 2,5-Pyridinediamine, N5-[2-(1,1-dimethylethyl)-7-methyl-6-phenyl-3H-imidazo[1,2-b]pyrazol-3-ylidene]-N2,N2-diethyl-6-methyl- (9CI) (CA INDEX NAME)



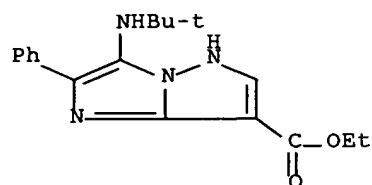
L5 ANSWER 2 OF 11 HCAPLUS COPYRIGHT 2005 ACS on STN  
 ACCESSION NUMBER: 1998:624858 HCAPLUS Full-text  
 DOCUMENT NUMBER: 129:302566  
 TITLE: A new heterocyclic multicomponent reaction for the  
 combinatorial synthesis of fused 3-aminoimidazoles  
 AUTHOR(S): Bienayme, Hugues; Bouzid, Kamel  
 CORPORATE SOURCE: Rhone-Poulenc Technologies, St-Fons, F-69192, Fr.  
 SOURCE: Angewandte Chemie, International Edition (1998  
 ), 37(16), 2234-2237  
 CODEN: ACIEF5; ISSN: 1433-7851  
 PUBLISHER: Wiley-VCH Verlag GmbH  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 129:302566  
 GI



AB Reaction of heteroarom. amidines, aldehydes, and isonitriles in the presence  
 of a catalytic amount of protic acids gave fused 3-aminoimidazoles. E.g.,  
 HClO<sub>4</sub>-catalyzed reaction of 2-aminopyrimidine, PhCHO, and Me<sub>3</sub>CNC gave 82%  
 imidazopyrimidine I.  
 IT **214531-45-0P 214531-46-1P**  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of fused aminoimidazoles by multicomponent reaction of  
 aminoamidines, aldehydes, and isonitriles)  
 RN 214531-45-0 HCAPLUS  
 CN 1H-Imidazo[1,2-b][1,2,4]triazol-6-amine, N-(1,1-dimethylethyl)-5-phenyl-  
 (9CI) (CA INDEX NAME)



RN 214531-46-1 HCAPLUS  
 CN 5H-Imidazo[1,2-b]pyrazole-7-carboxylic acid, 3-[(1,1-dimethylethyl)amino]-  
 2-phenyl-, ethyl ester (9CI) (CA INDEX NAME)

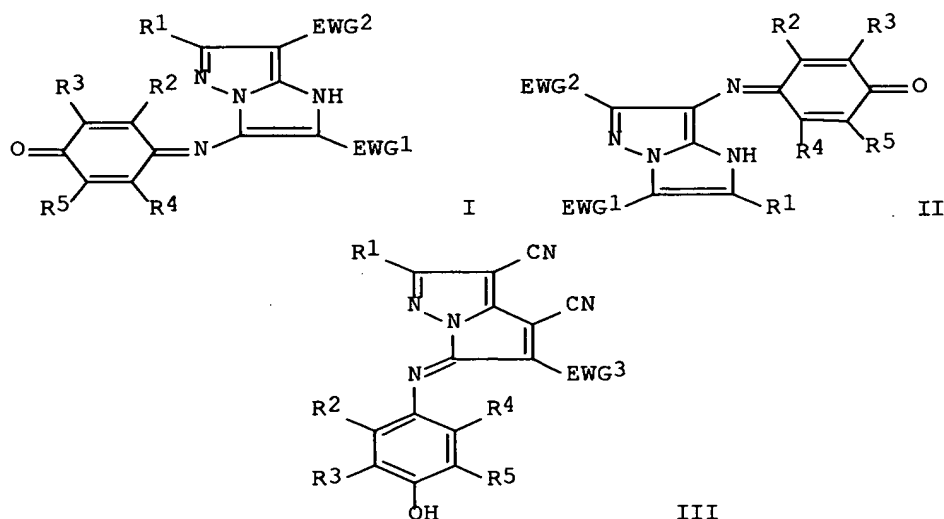


REFERENCE COUNT: 32 THERE ARE 32 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 3 OF 11 HCAPLUS COPYRIGHT 2005 ACS on STN  
 ACCESSION NUMBER: 1995:890612 HCAPLUS Full-text  
 DOCUMENT NUMBER: 124:71459  
 TITLE: Diffusion-transfer silver halide photographic material containing indophenol dye-releasing compound  
 INVENTOR(S): Nakamura, Takemare  
 PATENT ASSIGNEE(S): Fuji Photo Film Co Ltd, Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 53 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 07219179	A2	19950818	JP 1994-33236	19940207 <--
PRIORITY APPLN. INFO.:			JP 1994-33236	19940207

GI



AB The material contains (Dye-X)qY (Dye = I, II, III; X = bond, linking group; Y = group giving diffusivity difference of dye component; R1-5 = H, cyano,

carboxyl, sulfo, halo, alkyl, aryl, heterocyclic, acyl, sulfonyl alkoxy, etc.; EWG1-3 = electron-drawing group Hammett's  $\sigma$  para  $\geq 0.1$ ;  $\geq 1$  R and EWG bonds to X; q = 1, 2). The material gives clear color photog. image with good lightfastness.

IT 171912-00-8P 171912-01-9P

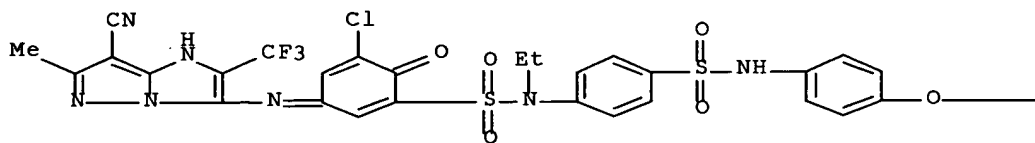
RL: DEV (Device component use); PNU (Preparation, unclassified); PREP (Preparation); USES (Uses)

(diffusion-transfer Ag halide photog. material containing indophenol dye-releasing compound)

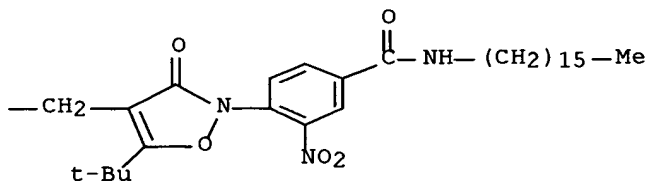
RN 171912-00-8 HCAPLUS

CN Benzamide, 4-[4-[[4-[[[4-[[[5-chloro-3-[[7-cyano-6-methyl-2-(trifluoromethyl)-1H-imidazo[1,2-b]pyrazol-3-yl]imino]-6-oxo-1,4-cyclohexadien-1-yl]sulfonyl]ethylamino]phenyl]sulfonyl]amino]phenoxy]methyl]-5-(1,1-dimethylethyl)-3-oxo-2(3H)-isoxazoly]l]-N-hexadecyl-3-nitro-(9CI) (CA INDEX NAME)

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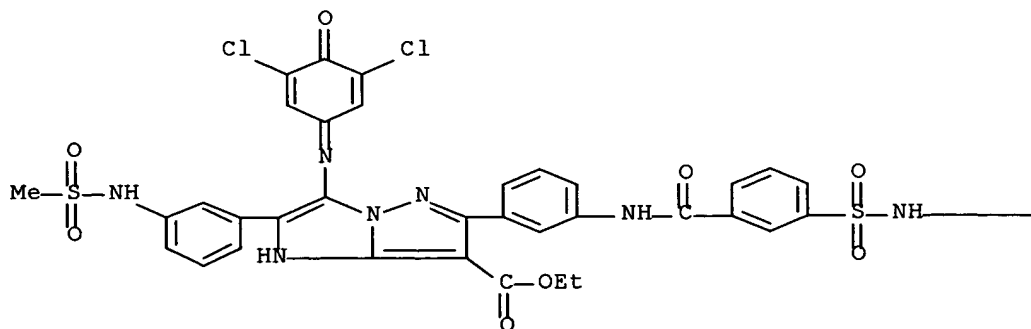
PAGE 1-B



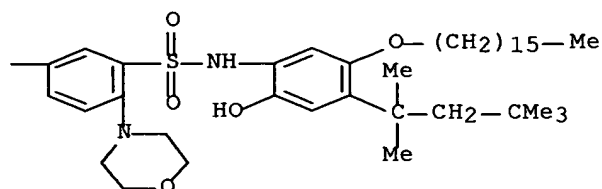
RN 171912-01-9 HCAPLUS

CN 1H-Imidazo[1,2-b]pyrazole-7-carboxylic acid, 3-[(3,5-dichloro-4-oxo-2,5-cyclohexadien-1-ylidene)amino]-6-[3-[[3-[[[3-[[[5-(hexadecyloxy)-2-hydroxy-4-(1,1,3,3-tetramethylbutyl)phenyl]amino]sulfonyl]-4-(4-morpholinyl)phenyl]amino]sulfonyl]benzoyl]amino]phenyl]-2-[3-[(methylsulfonyl)amino]phenyl]-, ethyl ester (9CI) (CA INDEX NAME)

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PAGE 1-B



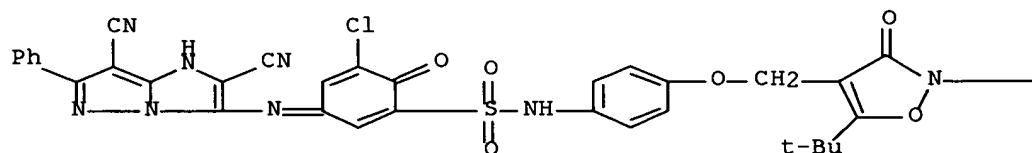
IT 171912-03-1P 171912-07-5P 171912-09-7P

RL: PNU (Preparation, unclassified); PREP (Preparation)  
 (diffusion-transfer Ag halide photog. material containing indophenol  
 dye-releasing compound)

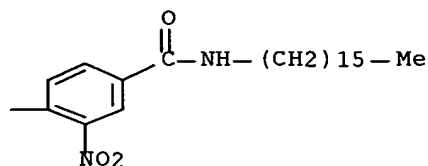
RN 171912-03-1 HCAPLUS

CN Benzamide, 4-[4-[[4-[[[5-chloro-3-[(2,7-dicyano-6-phenyl-1H-imidazo[1,2-  
 b]pyrazol-3-yl)imino]-6-oxo-1,4-cyclohexadien-1-  
 yl]sulfonyl]amino]phenoxy]methyl]-5-(1,1-dimethylethyl)-3-oxo-2(3H)-  
 isoxazolyl]-N-hexadecyl-3-nitro- (9CI) (CA INDEX NAME)

PAGE 1-A



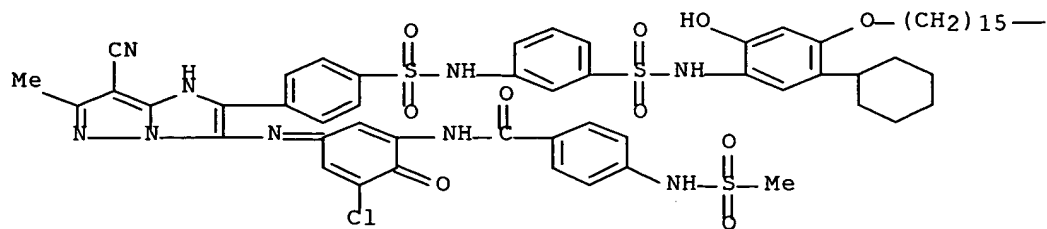
PAGE 1-B



RN 171912-07-5 HCAPLUS

CN Benzamide, N-[5-chloro-3-[[7-cyano-2-[4-[[[3-[[[5-cyclohexyl-4-(  
 (hexadecyloxy)-2-hydroxyphenyl]amino]sulfonyl]phenyl]amino]sulfonyl]phenyl  
 ]-6-methyl-1H-imidazo[1,2-b]pyrazol-3-yl]imino]-6-oxo-1,4-cyclohexadien-1-  
 yl]-4-[(methylsulfonyl)amino]- (9CI) (CA INDEX NAME)

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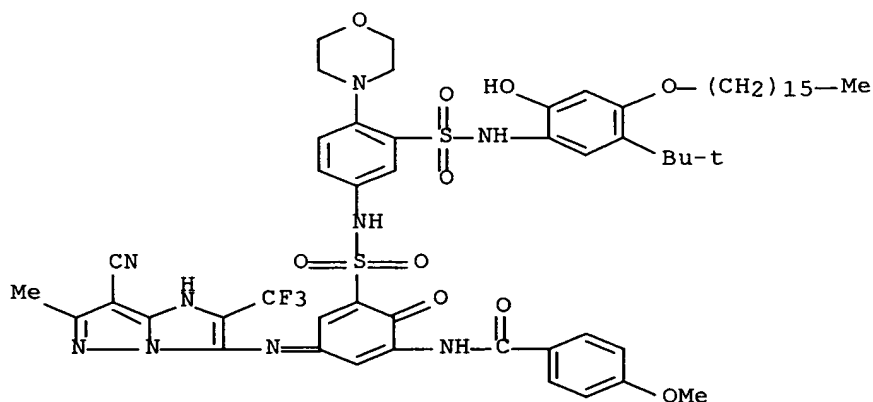


PAGE 1-B

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RN 171912-09-7 HCAPLUS

CN Benzamide, N-[3-[[7-cyano-6-methyl-2-(trifluoromethyl)-1H-imidazo[1,2-b]pyrazol-3-yl]imino]-5-[[[3-[[[5-(1,1-dimethylethyl)-4-(hexadecyloxy)-2-hydroxyphenyl]amino]sulfonyl]-4-(4-morpholinyl)phenyl]amino]sulfonyl]-6-oxo-1,4-cyclohexadien-1-yl]-4-methoxy- (9CI) (CA INDEX NAME)



IT 171912-21-3P 171912-25-7P

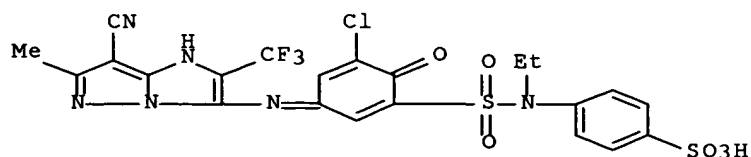
RL: PNU (Preparation, unclassified); RCT (Reactant); PREP (Preparation);

RACT (Reactant or reagent)

(in azo dye preparation)

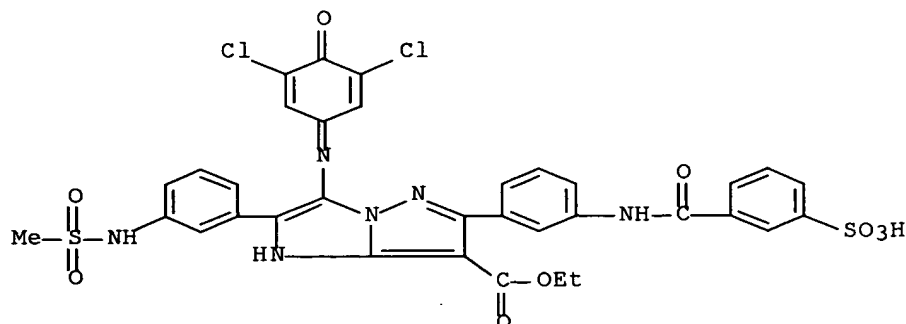
RN 171912-21-3 HCAPLUS

CN Benzenesulfonic acid, 4-[[[5-chloro-3-[[7-cyano-6-methyl-2-(trifluoromethyl)-1H-imidazo[1,2-b]pyrazol-3-yl]imino]-6-oxo-1,4-cyclohexadien-1-yl]sulfonyl]ethylamino]- (9CI) (CA INDEX NAME)



RN 171912-25-7 HCAPLUS

CN 1H-Imidazo[1,2-b]pyrazole-7-carboxylic acid, 3-[(3,5-dichloro-4-oxo-2,5-cyclohexadien-1-ylidene)amino]-2-[3-[(methylsulfonyl)amino]phenyl]-6-[3-[(3-sulfobenzoyl)amino]phenyl]-, 7-ethyl ester (9CI) (CA INDEX NAME)



L5 ANSWER 4 OF 11 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1995:522866 HCAPLUS Full-text

DOCUMENT NUMBER: 122:268336

TITLE: Azomethine dyes for thermal-transfer recording  
providing fast high-density images with good  
storability

INVENTOR(S): Kamio, Takayoshi; Tateishi, Tomoyoshi

PATENT ASSIGNEE(S): Fuji Photo Film Co Ltd, Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 22 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

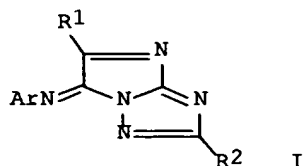
LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 07053887	A2	19950228	JP 1993-203193	19930817 <--
JP 3581380	B2	20041027		
PRIORITY APPLN. INFO.:			JP 1993-203193	19930817
OTHER SOURCE(S):	MARPAT	122:268336		

GI



AB The title dyes have the general formula I (R1, R2 = H, alkyl, aryl, heterocyclic, alkoxy, alkoxy, or aryloxy group; Ar



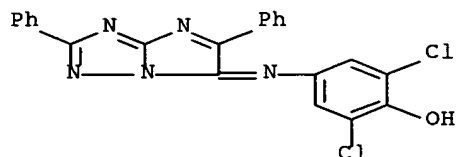
= p-aminophenyl or p-hydroxyphenyl group). A dye donor layer used with a receptor containing basic compds. and/or mordants was formed from I (Ar = 4-diethylamino-2-methylphenyl; R1 = Me3C; R2 = Ph) 10, poly(vinyl butyral) 10, KF-96 silicone 0.2, and Takenate D110N 0.5 g in 100 mL MEK and 80 mL toluene.

IT 64981-13-1 162753-23-3 162753-24-4  
162753-25-5 162753-26-6 162753-27-7  
162753-28-8 162753-29-9 162753-30-2  
162753-31-3 162753-32-4 162753-33-5  
162753-34-6

RL: TEM (Technical or engineered material use); USES (Uses)  
(azomethine dyes for thermal-transfer recording providing fast high-d. images with good storability)

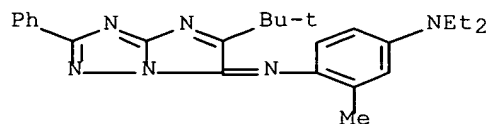
RN 64981-13-1 HCAPLUS

CN Phenol, 2,6-dichloro-4-[(2,5-diphenyl-6H-imidazo[1,2-b][1,2,4]triazol-6-ylidene)amino]- (9CI) (CA INDEX NAME)



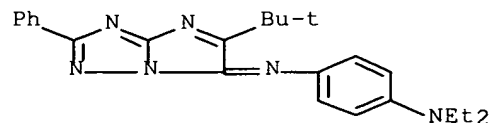
RN 162753-23-3 HCAPLUS

CN 1,4-Benzenediamine, N1-[5-(1,1-dimethylethyl)-2-phenyl-6H-imidazo[1,2-b][1,2,4]triazol-6-ylidene]-N4,N4-diethyl-2-methyl- (9CI) (CA INDEX NAME)



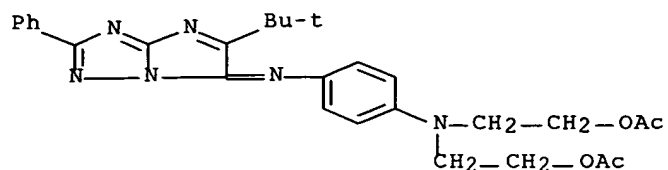
RN 162753-24-4 HCAPLUS

CN 1,4-Benzenediamine, N'-[5-(1,1-dimethylethyl)-2-phenyl-6H-imidazo[1,2-b][1,2,4]triazol-6-ylidene]-N,N-diethyl- (9CI) (CA INDEX NAME)



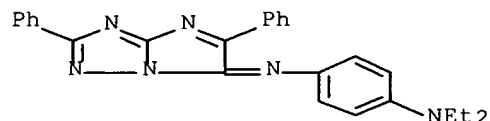
RN 162753-25-5 HCAPLUS

CN Ethanol, 2,2'-[[4-[[6-(1,1-dimethylethyl)-2-phenyl-5H-imidazo[1,2-b][1,2,4]triazol-5-ylidene]amino]phenyl]imino]bis-, diacetate (ester) (9CI) (CA INDEX NAME)



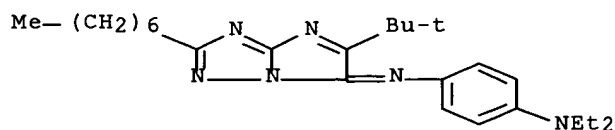
RN 162753-26-6 HCAPLUS

CN 1,4-Benzenediamine, N'-(2,5-diphenyl-6H-imidazo[1,2-b][1,2,4]triazol-6-ylidene)-N,N-diethyl- (9CI) (CA INDEX NAME)



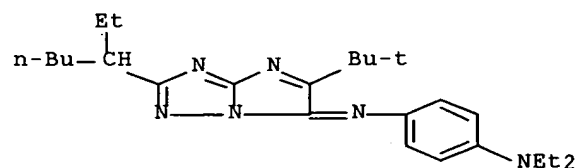
RN 162753-27-7 HCAPLUS

CN 1,4-Benzenediamine, N'-[5-(1,1-dimethylethyl)-2-heptyl-6H-imidazo[1,2-b][1,2,4]triazol-6-ylidene]-N,N-diethyl- (9CI) (CA INDEX NAME)



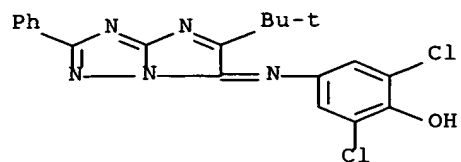
RN 162753-28-8 HCAPLUS

CN 1,4-Benzenediamine, N'-[5-(1,1-dimethylethyl)-2-(1-ethylpentyl)-6H-imidazo[1,2-b][1,2,4]triazol-6-ylidene]-N,N-diethyl- (9CI) (CA INDEX NAME)



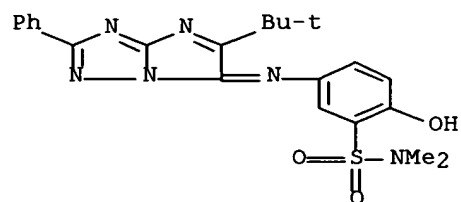
RN 162753-29-9 HCAPLUS

CN Phenol, 2,6-dichloro-4-[[5-(1,1-dimethylethyl)-2-phenyl-6H-imidazo[1,2-b][1,2,4]triazol-6-ylidene]amino]- (9CI) (CA INDEX NAME)



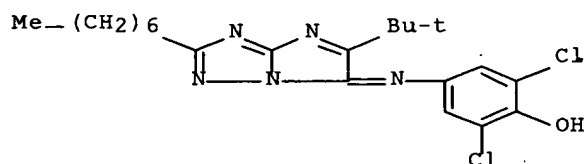
RN 162753-30-2 HCAPLUS

CN Benzenesulfonamide, 5-[[5-(1,1-dimethylethyl)-2-phenyl-6H-imidazo[1,2-b][1,2,4]triazol-6-ylidene]amino]-2-hydroxy-N,N-dimethyl- (9CI) (CA INDEX NAME)



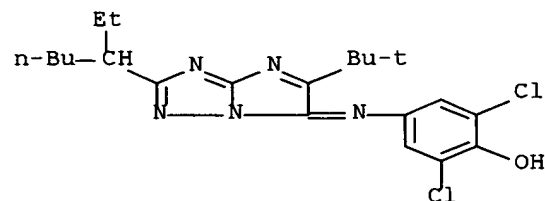
RN 162753-31-3 HCAPLUS

CN Phenol, 2,6-dichloro-4-[[5-(1,1-dimethylethyl)-2-heptyl-6H-imidazo[1,2-b][1,2,4]triazol-6-ylidene]amino]- (9CI) (CA INDEX NAME)



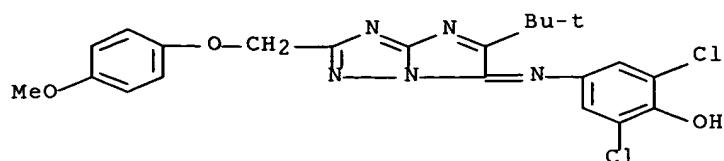
RN 162753-32-4 HCAPLUS

CN Phenol, 2,6-dichloro-4-[[5-(1,1-dimethylethyl)-2-(1-ethylpentyl)-6H-imidazo[1,2-b][1,2,4]triazol-6-ylidene]amino]- (9CI) (CA INDEX NAME)

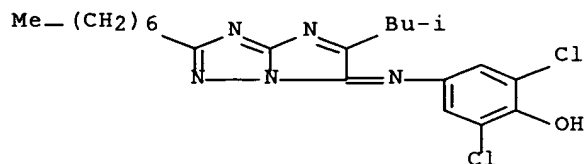


RN 162753-33-5 HCAPLUS

CN Phenol, 2,6-dichloro-4-[[5-(1,1-dimethylethyl)-2-[(4-methoxyphenoxy)methyl]-6H-imidazo[1,2-b][1,2,4]triazol-6-ylidene]amino]- (9CI) (CA INDEX NAME)



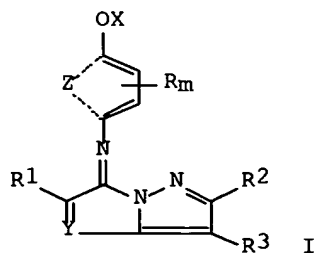
RN 162753-34-6 HCAPLUS  
 CN Phenol, 2,6-dichloro-4-[[2-heptyl-5-(2-methylpropyl)-6H-imidazo[1,2-b][1,2,4]triazol-6-ylidene]amino]- (9CI) (CA INDEX NAME)



L5 ANSWER 5 OF 11 HCAPLUS COPYRIGHT 2005 ACS on STN  
 ACCESSION NUMBER: 1994:591405 HCAPLUS Full-text  
 DOCUMENT NUMBER: 121:191405  
 TITLE: Thermal-transfer recording material containing magenta dye  
 INVENTOR(S): Nakayama, Noritaka; Miura, Akio; Komamura, Tawara  
 PATENT ASSIGNEE(S): Konishiroku Photo Ind, Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 13 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 06106867	A2	19940419	JP 1992-254946	19920924 <--
PRIORITY APPLN. INFO.:			JP 1992-254946	19920924
OTHER SOURCE(S):	MARPAT	121:191405		

GI



AB The recording material has a support coated with a heat-sensitive layer containing a pyrrolopyrazole derivative I (R1-3 = H, halo, alkyl, aryl, aralkyl, alkoxy, aryloxy, CN, carbamoyl, acylamino, alkylthio, arylthio, sulfonylamino, alkoxy carbonyl, aryloxy carbonyl, SO<sub>2</sub>, acyl, amino, heterocyclic group; R2 and R3 may form ring; R = H, alkyl, alkoxy, acylamino, halo, aryl; m = 1-4; R may form ring if m ≥ 2; Z = atomic group to form aromatic ring; Y = C, N; X = H, protonated N-containing organic base). The recording material gave high-d. images with good color reproduction

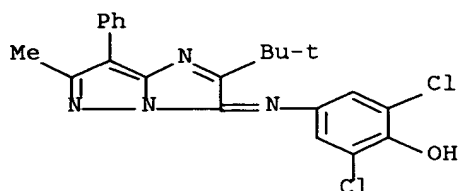
IT 157761-18-7 157761-19-8 157761-21-2

RL: USES (Uses)

(dye, magenta, thermal-transfer recording material containing, for high-d. images)

RN 157761-18-7 HCAPLUS

CN Phenol, 2,6-dichloro-4-[[2-(1,1-dimethylethyl)-6-methyl-7-phenyl-3H-imidazo[1,2-b]pyrazol-3-ylidene]amino]- (9CI) (CA INDEX NAME)



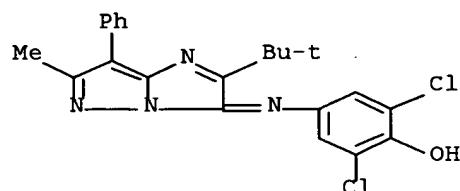
RN 157761-19-8 HCAPLUS

CN Phenol, 2,6-dichloro-4-[[2-(1,1-dimethylethyl)-6-methyl-7-phenyl-3H-imidazo[1,2-b]pyrazol-3-ylidene]amino]-, compd. with N,N'-diphenylguanidine (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 157761-18-7

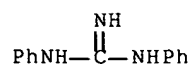
CMF C22 H20 Cl2 N4 O



CM 2

CRN 102-06-7

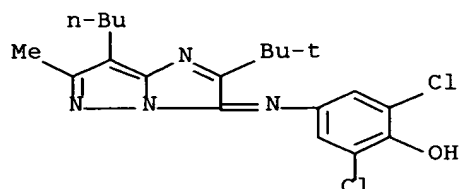
CMF C13 H13 N3



RN 157761-21-2 HCAPLUS  
 CN Guanidine, N,N'-diphenyl-, compd. with 4-[[7-butyl-2-(1,1-dimethylethyl)-6-methyl-3H-imidazo[1,2-b]pyrazol-3-ylidene]amino]-2,6-dichlorophenol (1:1)  
 (9CI) (CA INDEX NAME)

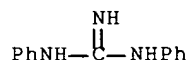
CM 1

CRN 157761-20-1  
 CMF C20 H24 C12 N4 O



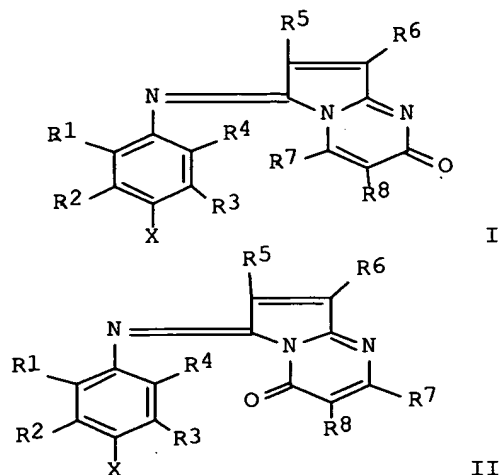
CM 2

CRN 102-06-7  
 CMF C13 H13 N3



L5 ANSWER 6 OF 11 HCAPLUS COPYRIGHT 2005 ACS on STN  
 ACCESSION NUMBER: 1994:566817 HCAPLUS Full-text  
 DOCUMENT NUMBER: 121:166817  
 TITLE: silver halide photographic material  
 INVENTOR(S): Myaki, Yukio; Mikoshiba, Takashi; Shimada, Yasuhiro  
 PATENT ASSIGNEE(S): Fuji Photo Film Co Ltd, Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 37 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	-----
JP 05341430	A2	19931224	JP 1992-153399	19920612 <--
PRIORITY APPLN. INFO.:			JP 1992-153399	19920612
OTHER SOURCE(S):	MARPAT	121:166817		
GI				



AB A black-and-white silver halide photog. material for use in x-ray films comprises silver halide photog. emulsion layers and an insol. azomethine dye represented by the formula I and II (R1-8 = H or a nonmetallic atomic group; X = OH or NR9R10; R9, R10 = H, alkyl, aryl, or a heterocyclic ring group with the proviso that R1 and R2, R2 and R9, R9 and R10, R3 and R10, R3 and R4, R5 and R6, and/or R7 and R8 may combine to form a ring) or the like in a hydrophilic colloidal layer on the same or opposite side of the photog. emulsion layers.

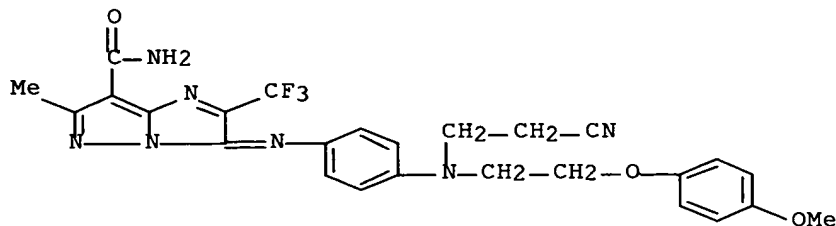
IT **157683-31-3**

RL: USES (Uses)

(black-and-white silver halide photog. materials containing)

RN 157683-31-3 HCAPLUS

CN 3H-Imidazo[1,2-b]pyrazole-7-carboxamide, 3-[[4-[(2-cyanoethyl)[2-(4-methoxyphenoxy)ethyl]amino]phenyl]imino]-6-methyl-2-(trifluoromethyl)-(9CI) (CA INDEX NAME)



L5 ANSWER 7 OF 11 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1994:485716 HCAPLUS Full-text

DOCUMENT NUMBER: 121:85716

TITLE: Phenolic quaternary salt dyes and thermal transfer recording materials using the same

INVENTOR(S): Nakayama, Noritaka; Miura, Akio; Takeyama, Toshihisa; Komamura, Tawara

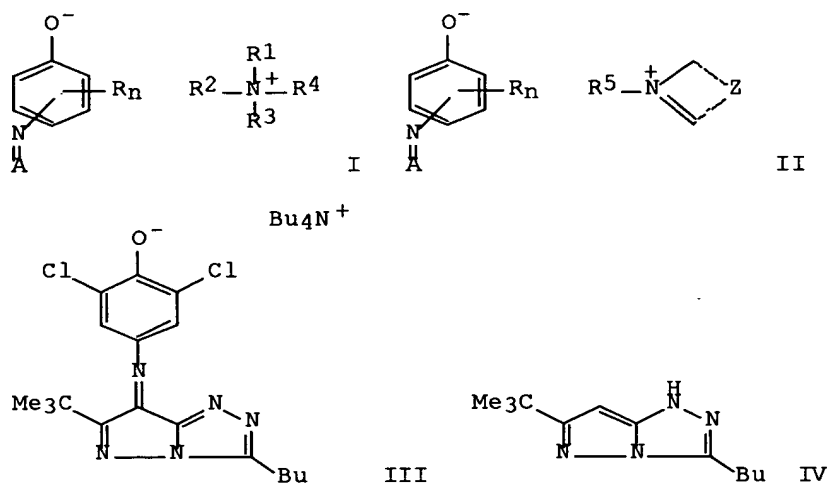
PATENT ASSIGNEE(S): Konishiroku Photo Ind, Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 16 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	-----
JP 06080900	A2	19940322	JP 1992-236020	19920903 <--
JP 3350736	B2	20021125		
PRIORITY APPLN. INFO.:			JP 1992-236020	19920903
OTHER SOURCE(S):	MARPAT	121:85716		
GI				



AB The title dyes also useful in color filters and other imaging processes have the general formula I or II (A = a N-bonded group of atoms needed for absorption in the visible region; R = benzene ring substituent; n = 0-4; R1-4 = alkyl, aryl; R5 = alkyl; Z = a group of atoms needed for forming 5- or 6-membered rings together with N). III was prepared starting from IV and 2,6-dichloro-4-aminophenol and coated together with styrene-acrylonitrile copolymer solution on a PET film to obtain a color filter showing dye retention 80% after irradiated 6 days by a xenon lamp.

IT 156353-64-9

RL: USES (Uses)

(dye, for color filters and imaging inks)

RN 156353-64-9 HCAPLUS

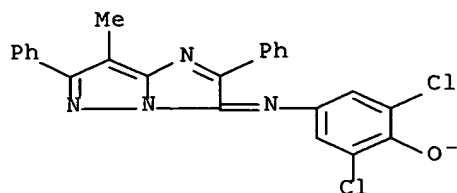
CN 1-Butanaminium, N,N,N-trimethyl-, salt with 2,6-dichloro-4-[(7-methyl-2,6-diphenyl-3H-imidazo[1,2-b]pyrazol-3-ylidene)amino]phenol (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 156353-63-8

CMF C24 H15 Cl2 N4 O

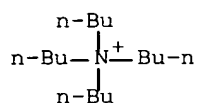




CM 2

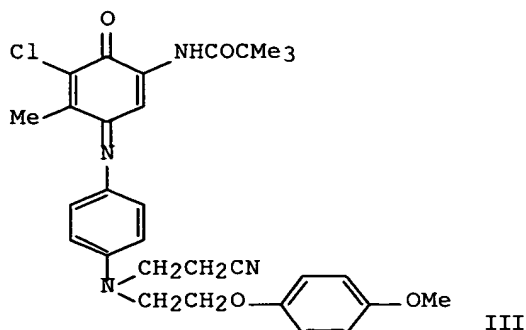
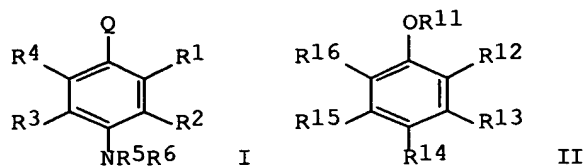
CRN 10549-76-5

CMF C16 H36 N



L5 ANSWER 8 OF 11 HCAPLUS COPYRIGHT 2005 ACS on STN  
 ACCESSION NUMBER: 1993:82830 HCAPLUS Full-text  
 DOCUMENT NUMBER: 118:82830  
 TITLE: Fading-resistant azomethine dyes for imaging and filters  
 INVENTOR(S): Mikoshiba, Takashi; Tanaka, Mitsugi; Morigaki, Masakazu; Kubodera, Seiichi  
 PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 45 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 04239061	A2	19920826	JP 1991-12470	19910110 <--
PRIORITY APPLN. INFO.:			JP 1991-12470	19910110
OTHER SOURCE(S):	MARPAT	118:82830		
GI				



AB The dyes have the general formula I, where Q = group absorbing in the visible and/or near IR region; R1-R6 = H, nonmetallic substituents,  $\geq 1$  of which is bonded to II; R11 = nonmetallic substituent; R12-R16 = H, nonmetallic substituent, with R12 and/or R14 being an alkoxy or amino group, and are especially useful as filter materials for liquid-crystal color television displays. III,  $\lambda_{\max}$  603 nm, was prepared in 55.4% yield starting from 2,3,5,4-HOCl2MeC6H<sub>2</sub>NHCO<sub>2</sub>Me and p-H<sub>2</sub>NC<sub>6</sub>H<sub>4</sub>N(CH<sub>2</sub>CH<sub>2</sub>CN)CH<sub>2</sub>CH<sub>2</sub>OC<sub>6</sub>H<sub>4</sub>OMe-p.2TsOH.

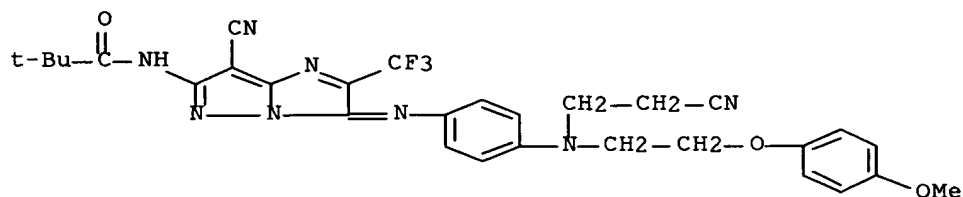
IT **145901-49-1P**

RL: PREP (Preparation)

(dye, fading-resistant, for imaging and optical filters, manufacture of)

RN 145901-49-1 HCAPLUS

CN Propanamide, N-[7-cyano-3-[[4-[(2-cyanoethyl)[2-(4-methoxyphenoxy)ethyl]amino]phenyl]imino]-2-(trifluoromethyl)-3H-imidazo[1,2-b]pyrazol-6-yl]-2,2-dimethyl- (9CI) (CA INDEX NAME)



L5 ANSWER 9 OF 11 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1993:40822 HCAPLUS Full-text

DOCUMENT NUMBER: 118:40822

TITLE: Dyes for inks

INVENTOR(S): Shimada, Yasuhiro

PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 16 pp.

CODEN: JKXXAF

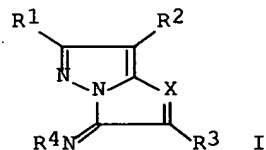
DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 2

## PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 04202261	A2	19920723	JP 1990-325583	19901129 <--
JP 2587322	B2	19970305		
US 5210200	A	19930511	US 1991-799192	19911127 <--
PRIORITY APPLN. INFO.:			JP 1990-325583	A 19901129
			JP 1990-330774	A 19901130
OTHER SOURCE(S):	MARPAT 118:40822			
GI				



AB Dyes providing lightfast ink jet-printed images have the general formula I (R1 = H, substituent; R2, R3 = substituent; X = N, CR5; R4 = aromatic group, unsatd. heterocyclic group; R5 = substituent). I [R1 = AcNH; R2 = CN; X = CCN; R3 = Ph; R4 = 4,2-(MeSO2NHCH2CH2NEt)MeC6H3] was prepared in 4 steps starting from NCCH2C(NH2):C(CN)2.

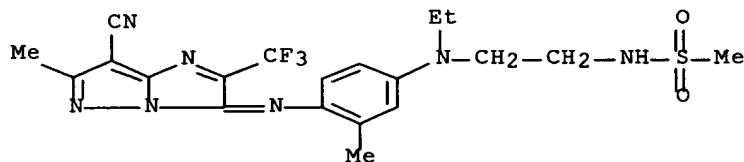
IT **145316-98-9P 145316-99-0P 145317-01-7P**

RL: PREP (Preparation)

(manufacture of, as dye for jet-printing inks)

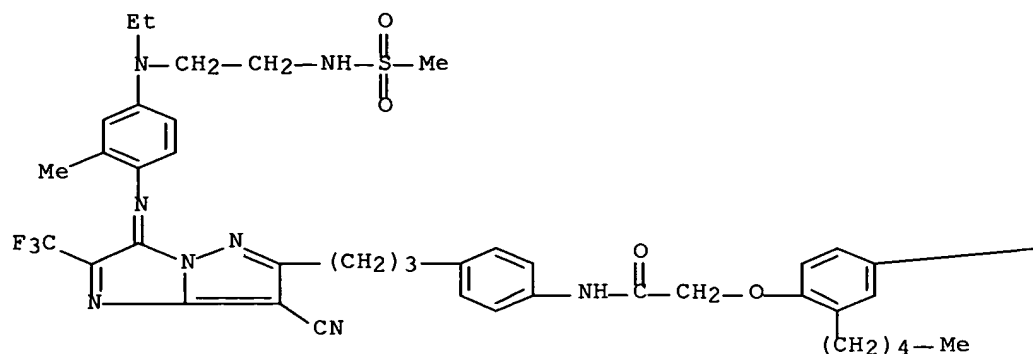
RN 145316-98-9 HCAPLUS

CN Methanesulfonamide, N-[2-[[4-[[7-cyano-6-methyl-2-(trifluoromethyl)-3H-imidazo[1,2-b]pyrazol-3-ylidene]amino]-3-methylphenyl]ethylamino]ethyl]- (9CI) (CA INDEX NAME)



RN 145316-99-0 HCAPLUS

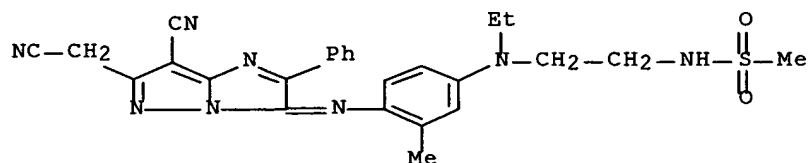
CN Acetamide, N-[4-[3-[7-cyano-3-[[4-[ethyl[2-[(methylsulfonyl)amino]ethyl]amino]-2-methylphenyl]imino]-2-(trifluoromethyl)-3H-imidazo[1,2-b]pyrazol-6-yl]propyl]phenyl]-2-(2,4-dipentylphenoxy)- (9CI) (CA INDEX NAME)



— (CH<sub>2</sub>)<sub>4</sub>—Me

RN 145317-01-7 HCAPLUS

CN Methanesulfonamide, N-[2-[[4-[[7-cyano-6-(cyanomethyl)-2-phenyl-3H-imidazo[1,2-b]pyrazol-3-ylidene]amino]-3-methylphenyl]ethylamino]ethyl]-(9CI) (CA INDEX NAME)



L5 ANSWER 10 OF 11 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1985:430241 HCAPLUS Full-text

DOCUMENT NUMBER: 103:30241

TITLE: Silver halide color photographic photosensitive materials containing magenta coupler polymer latexes

PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 20 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

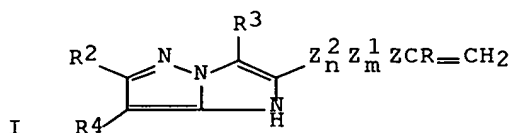
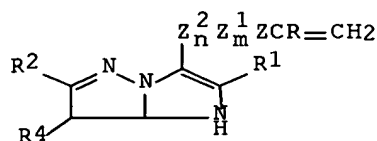
LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 2

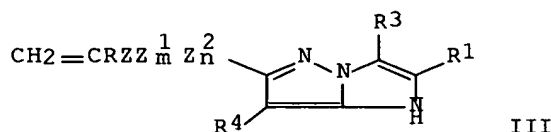
## PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 60035732	A2	19850223	JP 1983-145331	19830808 <--
JP 02031374	B4	19900712		
US 4576910	A	19860318	US 1984-619422	19840611 <--
PRIORITY APPLN. INFO.:			JP 1983-103336	A 19830609
			JP 1983-145331	A 19830808

GI



II



III

AB Ag halide color photog. photosensitive materials have emulsion layers containing magenta coupler copolymer latex having structural repeating units derived from monomeric couplers I, II, or III [R = H, Cl-4 alkyl, Cl; R1, R2, R3 = H, or substituent; R4 = H, a group released during coupling reaction; Z = NHCO, O2C, phenylene; Z1 = (un)substituted alkylene, aralkylene, phenylene; Z2 = O, NH, S, SO, SO2, CONH, CO2, NHCO, NHCONH; n = 0, 1; m = 0, 1; and m ≥ n]. Thus, a Bu acrylate-6-methyl-3-(3-methacrylamido propyl)-1H-imidazo[1,2-b]pyrazole copolymer solution was dispersed in gelatin solution to give a latex, which was then added to a green-sensitive Ag(Br,Cl) emulsion, and the emulsion was coated on a film support. The photog. film was sensitometrically exposed and developed to form high Dmax magenta images (λmax 531 nm; D420nm/Dmax = 0.040).

IT **96910-54-2**

RL: TEM (Technical or engineered material use); USES (Uses)  
(photog. magenta coupler)

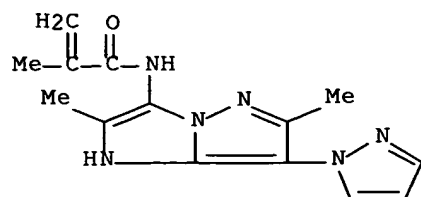
RN 96910-54-2 HCAPLUS

CN 2-Propenoic acid, ethyl ester, polymer with N-[2,6-dimethyl-7-(1H-pyrazol-1-yl)-1H-imidazo[1,2-b]pyrazol-3-yl]-2-methyl-2-propenamide (9CI) (CA INDEX NAME)

CM 1

CRN 96910-53-1

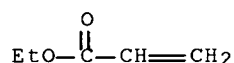
CMF C14 H16 N6 O



CM 2

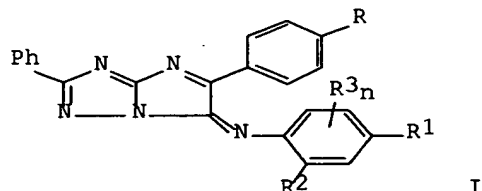
CRN 140-88-5

CMF C5 H8 O2



L5 ANSWER 11 OF 11 HCAPLUS COPYRIGHT 2005 ACS on STN  
 ACCESSION NUMBER: 1978:38940 HCAPLUS Full-text  
 DOCUMENT NUMBER: 88:38940  
 TITLE: Imidazo[1,2-b]-s-triazoles as color couplers  
 AUTHOR(S): Bogie, J. A.; Norris, T.  
 CORPORATE SOURCE: UK  
 SOURCE: Research Disclosure (1977), 162, 73-5 (No. 16216)  
 CODEN: RSDSBB; ISSN: 0374-4353  
 DOCUMENT TYPE: Journal; Patent  
 LANGUAGE: English  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
RD 162016		19771010		
PRIORITY APPLN. INFO.: GI			RD 1977-162016	19771010



AB 2,5-Diphenyl-1H-imidazo[1,2-b]-s-triazole [29017-08-1] and 5-(p-nitrophenyl)-2-phenyl-1H-imidazo[1,2-b]-s-triazole [64981-09-5] are color couplers which, when oxidatively coupled with aminophenols or phenylenediamines, give blue to cyan dyes (I; R = H, NO<sub>2</sub>; R<sub>1</sub> = OH, NEt<sub>2</sub>; R<sub>2</sub> = H, Me; R<sub>3n</sub> = Cl<sub>2</sub>, Cl<sub>3</sub>) with suitable hue and curve characteristics for use as image dyes in color photog.

The couplers are prepared by quaternizing 2-amino-5-phenyl-1,3,4-oxadiazoles with phenacyl bromides, treating the products with NH<sub>3</sub> to form 2-amino-1-benzamido-4-phenylimidazoles, and cyclizing with POCl<sub>3</sub> in polyphosphoric acid.

IT 64981-12-0P 64981-13-1P 64981-14-2P

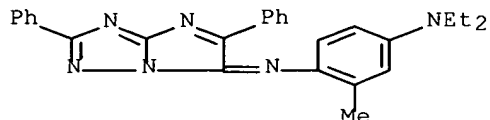
64981-15-3P 64981-16-4P 64981-17-5P

64981-18-6P 64981-19-7P

RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)  
(preparation and spectra of)

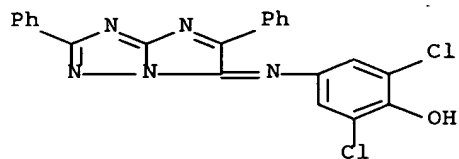
RN 64981-12-0 HCAPLUS

CN 1,4-Benzenediamine, N1-(2,5-diphenyl-6H-imidazo[1,2-b][1,2,4]triazol-6-ylidene)-N4,N4-diethyl-2-methyl- (9CI) (CA INDEX NAME)



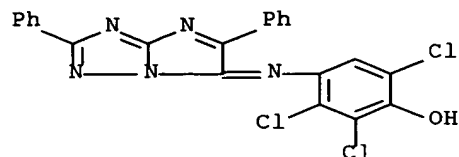
RN 64981-13-1 HCAPLUS

CN Phenol, 2,6-dichloro-4-[(2,5-diphenyl-6H-imidazo[1,2-b][1,2,4]triazol-6-ylidene)amino]- (9CI) (CA INDEX NAME)



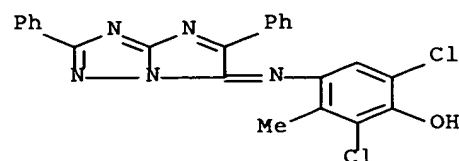
RN 64981-14-2 HCAPLUS

CN Phenol, 2,3,6-trichloro-4-[(2,5-diphenyl-6H-imidazo[1,2-b][1,2,4]triazol-6-ylidene)amino]- (9CI) (CA INDEX NAME)



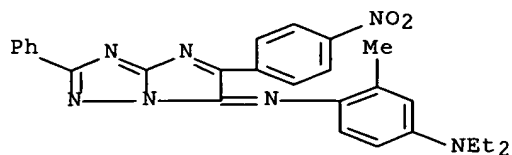
RN 64981-15-3 HCAPLUS

CN Phenol, 2,6-dichloro-4-[(2,5-diphenyl-6H-imidazo[1,2-b][1,2,4]triazol-6-ylidene)amino]-3-methyl- (9CI) (CA INDEX NAME)



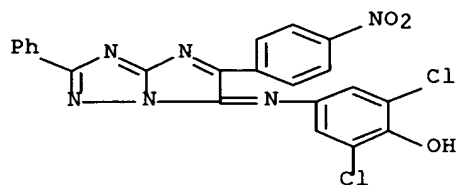
RN 64981-16-4 HCAPLUS

CN 1,4-Benzenediamine, N4,N4-diethyl-2-methyl-N1-[5-(4-nitrophenyl)-2-phenyl-6H-imidazo[1,2-b][1,2,4]triazol-6-ylidene]- (9CI) (CA INDEX NAME)



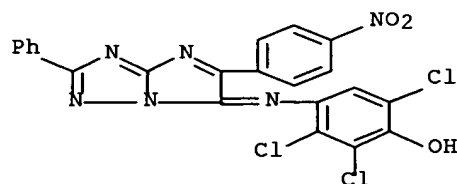
RN 64981-17-5 HCAPLUS

CN Phenol, 2,6-dichloro-4-[[5-(4-nitrophenyl)-2-phenyl-6H-imidazo[1,2-b][1,2,4]triazol-6-ylidene]amino]- (9CI) (CA INDEX NAME)



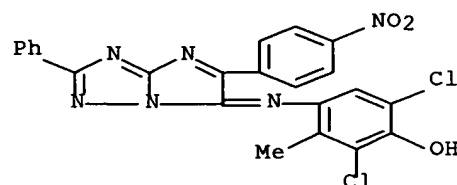
RN 64981-18-6 HCAPLUS

CN Phenol, 2,3,6-trichloro-4-[[5-(4-nitrophenyl)-2-phenyl-6H-imidazo[1,2-b][1,2,4]triazol-6-ylidene]amino]- (9CI) (CA INDEX NAME)



RN 64981-19-7 HCAPLUS

CN Phenol, 2,6-dichloro-3-methyl-4-[[5-(4-nitrophenyl)-2-phenyl-6H-imidazo[1,2-b][1,2,4]triazol-6-ylidene]amino]- (9CI) (CA INDEX NAME)





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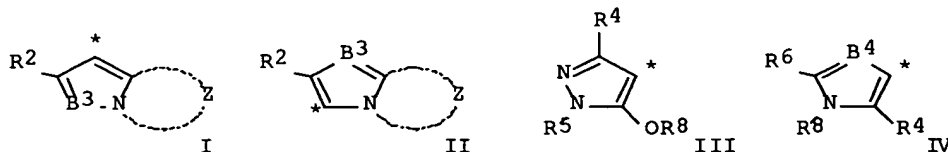
L1 STR  
 L3 130 SEA FILE=REGISTRY SSS FUL L1  
 L4 19 SEA FILE=HCAPLUS ABB=ON PLU=ON L3  
 L5 11 SEA FILE=HCAPLUS ABB=ON PLU=ON L4 AND PD=<OCTOBER 8, 1999  
 L6 8 SEA FILE=HCAPLUS ABB=ON PLU=ON L4 NOT L5

=&gt; =&gt; d ibib abs hitstr l6 1-8

L6 ANSWER 1 OF 8 HCAPLUS COPYRIGHT 2005 ACS on STN  
 ACCESSION NUMBER: 2004:1080124 HCAPLUS Full-text  
 DOCUMENT NUMBER: 142:59718  
 TITLE: Semiconductor for photoelectric converter,  
 photoelectric converter, and photoelectrochemical cell  
 INVENTOR(S): Ofuku, Koji; Otsu, Shinya; Kagawa, Nobuaki  
 PATENT ASSIGNEE(S): Konica Minolta Holdings, Inc., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 75 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2004355960	A2	20041216	JP 2003-152404	20030529
PRIORITY APPLN. INFO.:			JP 2003-152404	20030529
OTHER SOURCE(S):	MARPAT	142:59718		

GI



AB The semiconductor contains pigment Q-B1:B2-A, where A = C5-6 arom or heterocyclic ring, B1 and B2 = -CR1: or -N: with at least 1 of them being -N:, R1 = H or a substituent, and Q = a carboxyl group containing unit I, II, III, or IV (B3 = CR3 or N, R2 and R3 = H or a substituent, Z = atom groups necessary to form a 5- or 6-membered ring, B4 = CR7 or N, R4-7 = H or a substituent, R8 = H, alkyl, or acyl group, and the unit is connected to B1 at \*). The semiconductor is a metal oxide of metal sulfide. The photoelec. converter has a layer of the semiconductor on a conductive support, and the photoelectrochem. cell has the photoelec. converter, a charge transporting layer, and a counter electrode.

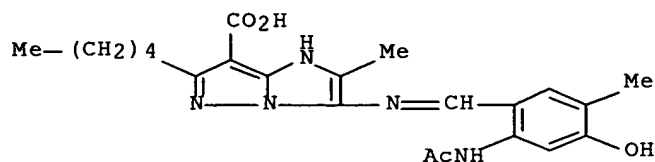
IT 808147-10-6

RL: MOA (Modifier or additive use); USES (Uses)  
 (sensitizing pigments for metal oxide or metal sulfide semiconductors for photoelec. converters and photoelectrochem. cells)

RN 808147-10-6 HCAPLUS

CN 1H-Imidazo[1,2-b]pyrazole-7-carboxylic acid, 3-[[[2-(acetylamino)-4-

hydroxy-5-methylphenyl]methylene]amino]-2-methyl-6-pentyl- (9CI) (CA  
INDEX NAME)



L6 ANSWER 2 OF 8 HCAPLUS COPYRIGHT 2005 ACS on STN  
 ACCESSION NUMBER: 2004:5200 HCAPLUS Full-text  
 DOCUMENT NUMBER: 140:78637  
 TITLE: Colored particle dispersion, ink jet ink, dye, and ink  
 jet recording method  
 INVENTOR(S): Takahashi, Mari; Ikesu, Satoru; Suzuki, Takatugu;  
 Iwamoto, Kyoko  
 PATENT ASSIGNEE(S): Konica Corporation, Japan  
 SOURCE: Eur. Pat. Appl., 88 pp.  
 CODEN: EPXXDW  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1375611	A2	20040102	EP 2003-14187	20030624
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
JP 2004217884	A2	20040805	JP 2003-121442	20030425
US 2004010056	A1	20040115	US 2003-600160	20030620
PRIORITY APPLN. INFO.:			JP 2002-189751	A 20020628
			JP 2002-333321	A 20021118

OTHER SOURCE(S): MARPAT 140:78637

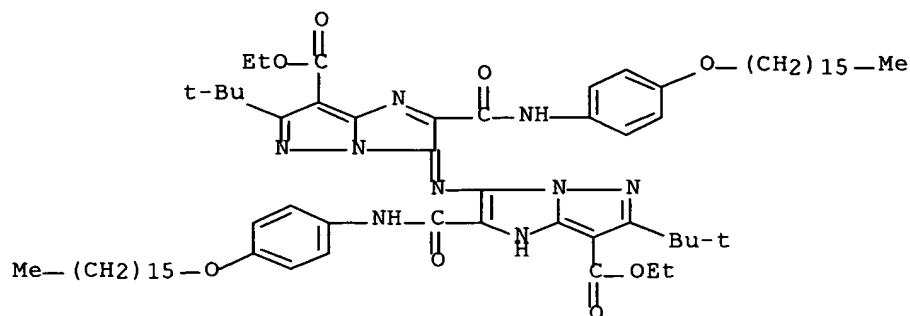
AB A colored dispersion comprises a polymer and a dye X:DB, wherein X is a heterocyclic or heteroacyclic group, D is a nitrogen atom or :CR1, R1 being a hydrogen atom or a substituent; and B is a heterocyclic or heteroacyclic group. A dispersion contained polyvinyl butyral and a dye.

IT 640299-96-3 640301-33-3 640303-71-5

RL: TEM (Technical or engineered material use); USES (Uses)  
 (dye; colored particle dispersion, ink jet ink, dye, and ink jet recording method)

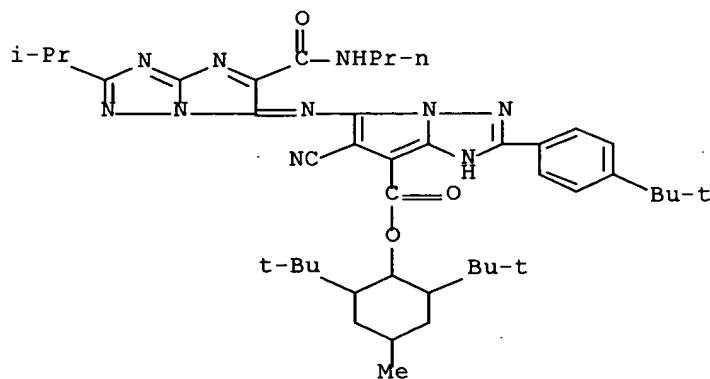
RN 640299-96-3 HCAPLUS

CN 1H-Imidazo[1,2-b]pyrazole-7-carboxylic acid, 6-(1,1-dimethylethyl)-3-[[6-(1,1-dimethylethyl)-7-(ethoxycarbonyl)-2-[[[4-(hexadecyloxy)phenyl]amino]carbonyl]-3H-imidazo[1,2-b]pyrazol-3-ylidene]amino]-2-[[[4-(hexadecyloxy)phenyl]amino]carbonyl]-, ethyl ester (9CI) (CA INDEX NAME)



RN 640301-33-3 HCAPLUS

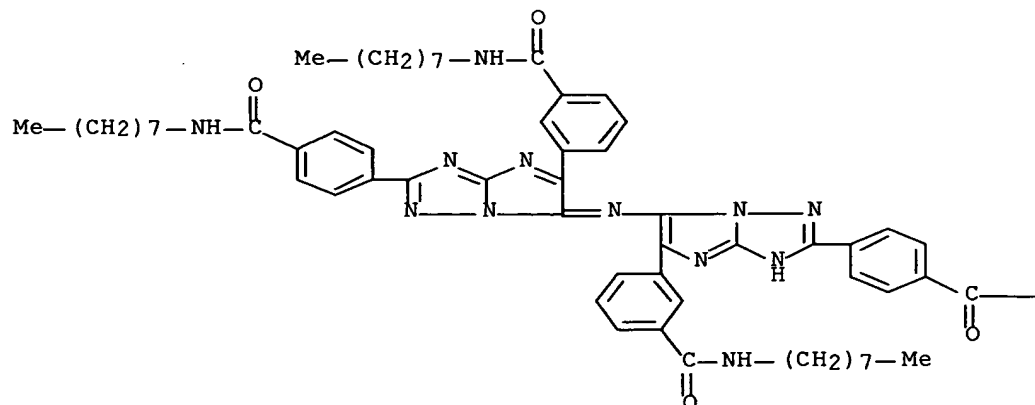
CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxylic acid, 6-cyano-2-[4-(1,1-dimethylethyl)phenyl]-5-[[2-(1-methylethyl)-5-[(propylamino)carbonyl]-6H-imidazo[1,2-b][1,2,4]triazol-6-ylidene]amino]-, 2,6-bis(1,1-dimethylethyl)-4-methylcyclohexyl ester (9CI) (CA INDEX NAME)



RN 640303-71-5 HCAPLUS

CN Benzamide, N-octyl-3-[2-[4-[(octylamino)carbonyl]phenyl]-6-[[5-[3-[(octylamino)carbonyl]phenyl]-2-[4-[(octylamino)carbonyl]phenyl]-6H-imidazo[1,2-b][1,2,4]triazol-6-ylidene]amino]-1H-imidazo[1,2-b][1,2,4]triazol-5-yl]- (9CI) (CA INDEX NAME)

PAGE 1-A

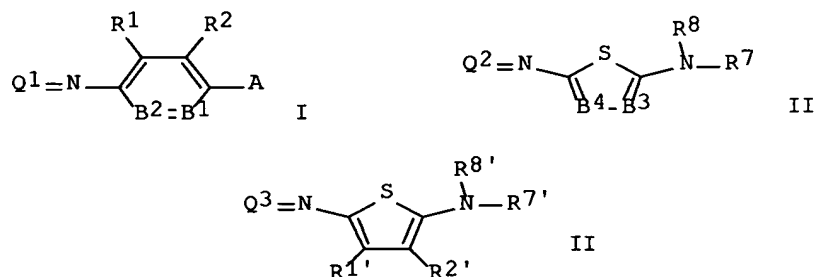


—NH—(CH<sub>2</sub>)<sub>7</sub>—Me

L6 ANSWER 3 OF 8 HCAPLUS COPYRIGHT 2005 ACS on STN  
 ACCESSION NUMBER: 2003:906137 HCAPLUS Full-text  
 DOCUMENT NUMBER: 139:382887  
 TITLE: Coloring compositions, color microparticle  
 dispersions, aqueous jet inks containing them with  
 good light and water resistance, and ink-jet printing  
 using them  
 INVENTOR(S): Ofuku, Koji; Takahashi, Mari; Miura, Norio  
 PATENT ASSIGNEE(S): Konica Minolta Holdings Inc., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 77 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2003327860	A2	20031119	JP 2002-133967	20020509
PRIORITY APPLN. INFO.:			JP 2002-133967	20020509
OTHER SOURCE(S):	MARPAT 139:382887			

GI



AB The coloring compns. contain dyes selected from I [A = NR<sup>3</sup>R<sup>4</sup>, OH; R<sup>3</sup>, R<sup>4</sup> = H, alkyl, aryl, heteroring; B<sup>1</sup> = CR<sup>5</sup>, N; B<sup>2</sup> = CR<sup>6</sup>, N; R<sup>1</sup>, R<sup>2</sup>, R<sup>5</sup>, R<sup>6</sup> = H,

substituent; Q1 = pyrazolothiazolylidene, pyrazolopyrazolylidene, furopyrrolylidene, pyrrolooxazolylidene, imidazoindolylidene, etc. (may have substituents)], II (R7, R8 = same as R3, R4; B3, B4 = same as B1, B2; Q2 = Q1), and III [R7', R8' = same as R3, R4; R1', R2' = H, substituent; Q3 = R51COCR52, R53CR52, pyrazolotriazolylidene, pyridinonylidene, etc. (may have substituents); R51-53 = H, substituent]. Thus, a dispersion containing I (R1, R2 = H; B1 = CMe; B2 = N; A = diethylamino; Q1 = pyrazolothiazolylidene, substituent = XOCMeCONH, X = 2,4-di-tert-pentylphenyl) and polyvinyl butyral (BL-S) was mixed with solvents and H2O to give an ink showing good color.

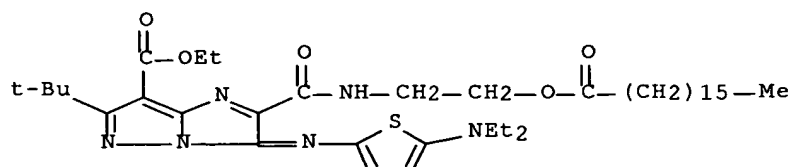
IT **624730-40-1**

RL: TEM (Technical or engineered material use); USES (Uses)

(dye compns. for aqueous jet inks with good light and water resistance)

RN 624730-40-1 HCAPLUS

CN 3H-Imidazo[1,2-b]pyrazole-7-carboxylic acid, 3-[[5-(diethylamino)-2-thienyl]imino]-6-(1,1-dimethylethyl)-2-[[[2-[(1-oxoheptadecyl)oxy]ethyl]amino]carbonyl]-, ethyl ester (9CI) (CA INDEX NAME)



L6 ANSWER 4 OF 8 HCAPLUS COPYRIGHT 2005 ACS on STN  
ACCESSION NUMBER: 2003:527638 HCAPLUS Full-text

DOCUMENT NUMBER: 139:102541

TITLE: Colorant dispersion compositions for water-based ink-jet inks and ink-jet recording method therefor

INVENTOR(S): Takahashi, Mari; Ofuku, Koji; Miura, Norio

PATENT ASSIGNEE(S): Konica Co., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 83 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

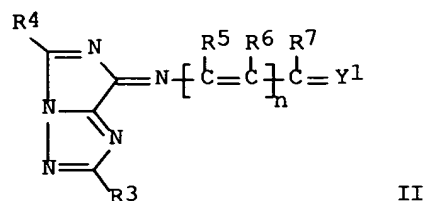
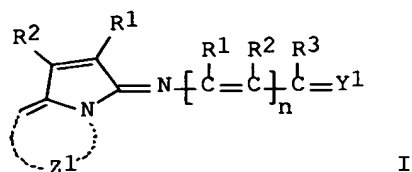
LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2003192978	A2	20030709	JP 2001-396851	20011227
PRIORITY APPLN. INFO.:			JP 2001-396851	20011227
OTHER SOURCE(S):	MARPAT	139:102541		

GI



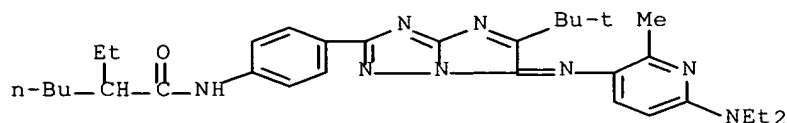
AB The title compns. have good particle dispersion stability and color picture light resistance, and are prepared by dispersing colorant fine particles (P) having core-shell structure in aqueous solution, wherein P comprises pigments (I), (II) or their analogs (R1-R7=H or other substituents, Z1=5- or 6-membered N-containing ring, Y1=5- or 6-membered aromatic ring, n=0-2), a hydrophobic polymer and an organic solvent with a b.p.>150°. Thus, dissolving and mixing 15 g polyvinyl butyral (S-Lec BL-S) with 10 g pigment (a pyrrolotriazole derivative, structure given) in 150 g Et acetate, dropping the solution into 150 g aqueous solution containing 3 g sodium laurylsulfonate, ultrasonically emulsifying the mixture then evaporating Et acetate gave a title composition, 2% of which was mixed with 15% ethylene glycol, 15% glycerin and 0.3% Surfynol 465 in balance water to give a title ink.

IT **558484-79-0 558485-15-7 558485-16-8**  
**558485-17-9 558485-46-4 558485-47-5**

RL: TEM (Technical or engineered material use); USES (Uses)  
 (pigment; in colorant dispersion compns. for water-based ink-jet inks  
 with good particle dispersion stability)

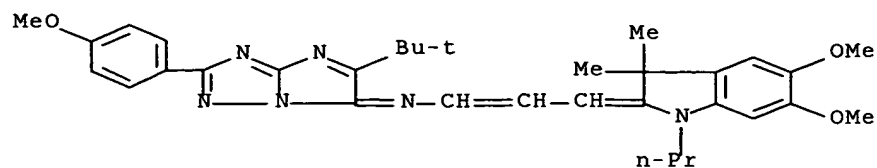
RN 558484-79-0 HCAPLUS

CN Hexanamide, N-[4-[6-[[6-(diethylamino)-2-methyl-3-pyridinyl]imino]-5-(1,1-dimethylethyl)-6H-imidazo[1,2-b][1,2,4]triazol-2-yl]phenyl]-2-ethyl- (9CI)  
 (CA INDEX NAME)



RN 558485-15-7 HCAPLUS

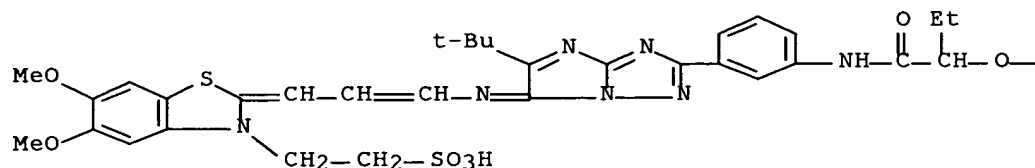
CN 1-Propen-1-amine, 3-(1,3-dihydro-5,6-dimethoxy-3,3-dimethyl-1-propyl-2H-indol-2-ylidene)-N-[5-(1,1-dimethylethyl)-2-(4-methoxyphenyl)-6H-imidazo[1,2-b][1,2,4]triazol-6-ylidene]- (9CI) (CA INDEX NAME)



RN 558485-16-8 HCAPLUS

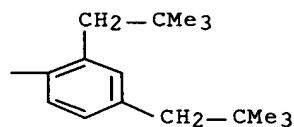
CN 3(2H)-Benzothiazoleethanesulfonic acid, 2-[3-[[2-[3-[[2-[2,4-bis(2,2-dimethylpropyl)phenoxy]-1-oxobutyl]amino]phenyl]-5-(1,1-dimethylethyl)-6H-imidazo[1,2-b][1,2,4]triazol-6-ylidene]amino]-2-propenylidene]-5,6-dimethoxy-, monosodium salt (9CI) (CA INDEX NAME)

PAGE 1-A



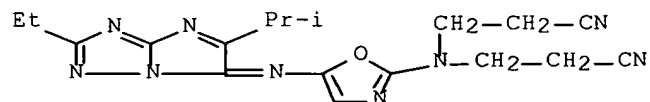
● Na

PAGE 1-B



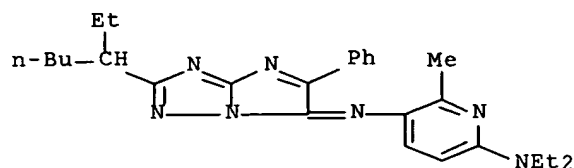
RN 558485-17-9 HCAPLUS

CN Propanenitrile, 3,3'-[[5-[[2-ethyl-5-(1-methylethyl)-6H-imidazo[1,2-b][1,2,4]triazol-6-ylidene]amino]-2-oxazolyl]imino]bis- (9CI) (CA INDEX NAME)



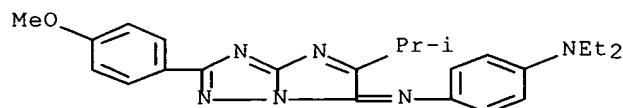
RN 558485-46-4 HCAPLUS

CN 2,5-Pyridinediamine, N2,N2-diethyl-N5-[2-(1-ethylpentyl)-5-phenyl-6H-imidazo[1,2-b][1,2,4]triazol-6-ylidene]-6-methyl- (9CI) (CA INDEX NAME)



RN 558485-47-5 HCAPLUS

CN 1,4-Benzenediamine, N,N-diethyl-N'-[2-(4-methoxyphenyl)-5-(1-methylethyl)-6H-imidazo[1,2-b][1,2,4]triazol-6-ylidene]- (9CI) (CA INDEX NAME)



L6 ANSWER 5 OF 8 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2003:168566 HCAPLUS Full-text

DOCUMENT NUMBER: 138:223083

TITLE: Azomethine and methine compounds, their black dyes, their ink compositions, and method for jet-printing  
INVENTOR(S): Yamakawa, Kazuyoshi; Suzuki, Akira; Kaneko, Yuji; Naruse, Hideaki

PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 74 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

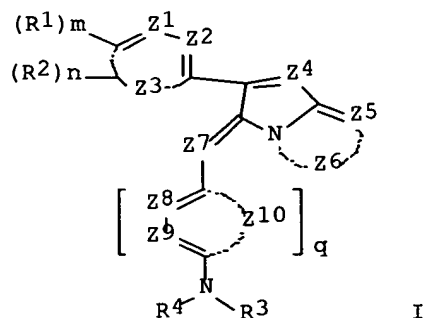
LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2003064273	A2	20030305	JP 2001-255149	20010824
PRIORITY APPLN. INFO.:			JP 2001-255149	20010824
OTHER SOURCE(S):	MARPAT 138:223083			

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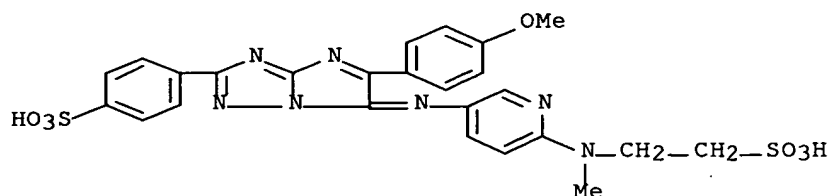
AB The ink compns. comprise dyes I (Z1, Z2, Z4, Z5, Z7-Z9 = N, CR11; Z3, Z6, Z10 = nonmetallic atom forming 5-7-membered ring; R1, R2 = halo, electron-donating group with Hammett  $\sigma$  value  $<-0.20$ ; R3, R4 = H, substituent; R11 = H, substituent; m = 0, 1; n = 0-4; q = 1, 2). Thus, a black ink containing II gave images with good lightfastness and ozone resistance.

IT 500569-86-8 500569-87-9 500570-05-8  
500570-24-1

RL: TEM (Technical or engineered material use); USES (Uses)  
(black azomethine and methine dyes for jet-printing ink compns. with good lightfastness)

RN 500569-86-8 HCAPLUS

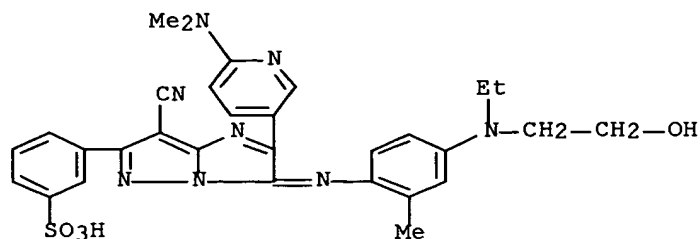
CN Benzenesulfonic acid, 4-[5-(4-methoxyphenyl)-6-[[6-[methyl(2-sulfoethyl)amino]-3-pyridinyl]imino]-6H-imidazo[1,2-b][1,2,4]triazol-2-yl]-, disodium salt (9CI) (CA INDEX NAME)



● 2 Na

RN 500569-87-9 HCAPLUS

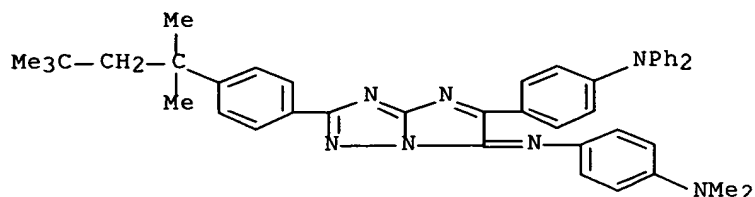
CN Benzenesulfonic acid, 3-[7-cyano-2-[6-(dimethylamino)-3-pyridinyl]-3-[[4-[ethyl(2-hydroxyethyl)amino]-2-methylphenyl]imino]-3H-imidazo[1,2-b]pyrazol-6-yl]-, monosodium salt (9CI) (CA INDEX NAME)



● Na

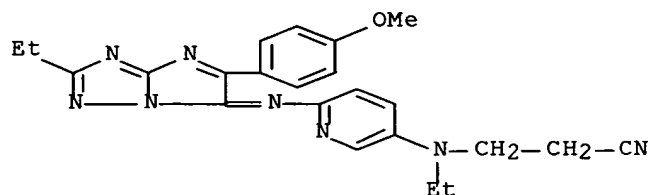
RN 500570-05-8 HCAPLUS

CN 1,4-Benzenediamine, N'-[5-[4-(diphenylamino)phenyl]-2-[4-(1,1,3,3-tetramethylbutyl)phenyl]-6H-imidazo[1,2-b][1,2,4]triazol-6-ylidene]-N,N-dimethyl- (9CI) (CA INDEX NAME)



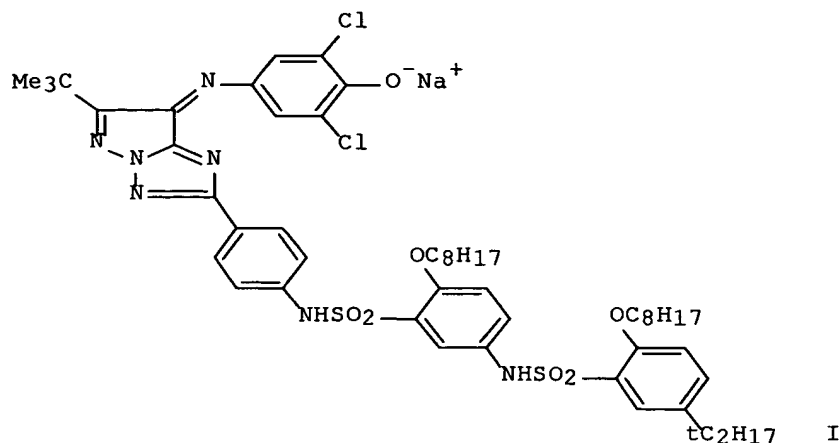
RN 500570-24-1 HCAPLUS

CN Propanenitrile, 3-[ethyl[6-[[2-ethyl-5-(4-methoxyphenyl)-6H-imidazo[1,2-b][1,2,4]triazol-6-ylidene]amino]-3-pyridinyl]amino]- (9CI) (CA INDEX NAME)



L6 ANSWER 6 OF 8 HCAPLUS COPYRIGHT 2005 ACS on STN  
 ACCESSION NUMBER: 2002:202282 HCAPLUS Full-text  
 DOCUMENT NUMBER: 136:233690  
 TITLE: Colored compositions, jet-printing inks, and method for printing using the inks  
 INVENTOR(S): Tanaka, Shigeaki  
 PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 50 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2002080740	A2	20020319	JP 2000-273617	20000908
PRIORITY APPLN. INFO.:			JP 2000-273617	20000908
OTHER SOURCE(S):	MARPAT	136:233690		
GI				



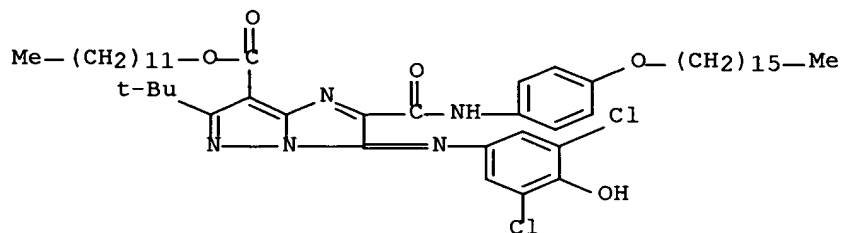
AB The compns. contain oil-soluble dyes Q:N-p-C<sub>6</sub>H<sub>4</sub>-nRnO-X<sup>+</sup> (Q = chromophoric group; X = cation-foamable atom or atomic group; R = substituent; n = 0-4). Thus, water was added to a iso-PrOH/tert-butanol solution of pyrazolotriazoleazomethine compound I and 85:15 sec-Bu acrylate-acrylic acid copolymer to give a dispersion (particle size 49 nm), which was made into a water-thinned jet-printing ink, resulting in good printability and water and light resistance.

IT **403602-76-6**

RL: TEM (Technical or engineered material use); USES (Uses)  
(oil-soluble dyes; colored compns. for water-thinned jet-printing inks with good printability)

RN 403602-76-6 HCAPLUS

CN 3H-Imidazo[1,2-b]pyrazole-7-carboxylic acid, 3-[(3,5-dichloro-4-hydroxyphenyl)imino]-6-[(1,1-dimethylethyl)-2-[[[4-(hexadecyloxy)phenyl]amino]carbonyl]-, dodecyl ester, monopotassium salt (9CI) (CA INDEX NAME)



● K

L6 ANSWER 7 OF 8 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2001:283960 HCAPLUS Full-text

DOCUMENT NUMBER: 134:295829

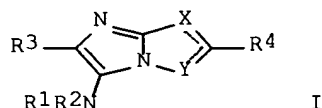
TITLE: Preparation of aminoimidazo[2,1-b]thiazoles, -pyrazoles, and -triazoles as analgesics

INVENTOR(S): Gerlach, Matthias; Maul, Corinna

PATENT ASSIGNEE(S): Gruenenthal G.m.b.H., Germany

SOURCE: PCT Int. Appl., 56 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 5  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001027118	A2	20010419	WO 2000-EP9097	20000918
WO 2001027118	A3	20010920		
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
DE 19948434	A1	20010607	DE 1999-19948434	19991008
DE 19948436	A1	20010607	DE 1999-19948436	19991008
CA 2388476	AA	20010419	CA 2000-2388476	20000918
BR 2000014817	A	20020618	BR 2000-14817	20000918
EP 1218383	A2	20020703	EP 2000-967693	20000918
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JP 2003511456	T2	20030325	JP 2001-530336	20000918
NZ 518390	A	20031031	NZ 2000-518390	20000918
NO 2002001566	A	20020527	NO 2002-1566	20020403
US 2002183320	A1	20021205	US 2002-117335	20020408
US 6657064	B2	20031202		
ZA 2002003582	A	20030905	ZA 2002-3582	20020506
US 2004023927	A1	20040205	US 2003-633579	20030805
PRIORITY APPLN. INFO.:				
			DE 1999-19948434	A 19991008
			DE 1999-19948436	A 19991008
			DE 1999-19948438	A 19991008
			WO 2000-EP9097	W 20000918
			US 2002-117335	A3 20020408
OTHER SOURCE(S):				
MARPAT 134:295829				
GI				



AB Title compds. [I; R1 = CMe3, cyanohexyl, (substituted) Ph, cycloalkyl, etc.; R2 = H, (branched) (substituted) alkylcarbonyl, Ph, naphthyl, pyridyl, thiazolyl, furoyl, etc.; R3 = (branched) alkylcycloalkyl, (substituted) Ph, naphthyl, quinolinyl, anthracenyl, phenanthrenyl, etc.; X = CR5, N, S; Y = N, but when X = S, Y = CR6, N; R4, R5, R6 = H, (branched) alkyl, halo, CF3, cyano, NO2, amino, etc.], were prepared Using a Zymark robotic synthesis system, 3-amino-1,2,4-triazole and HClO4 in CH2Cl2, furfural in CH2Cl2, and tert-butylisonitrile in CH2Cl2 were added successively to a reactor tube at 15° followed by 11 h stirring at 15° to give tert-butyl-(5-furan-2-yl-

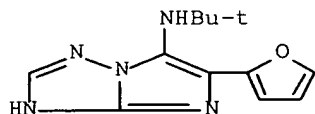
imidazo[1,2-b][1,2,4]triazol-6-yl)amine. Several I at 10  $\mu$ M showed 34-77%  $\alpha_2$  adrenoceptor affinity.

IT 334771-60-7P 334771-63-0P 334771-65-2P  
 334771-66-3P 334771-68-5P 334771-70-9P  
 334771-77-6P 334771-83-4P 334771-86-7P  
 334771-88-9P 334771-90-3P 334771-93-6P  
 334771-95-8P 334772-02-0P 334772-04-2P  
 334772-05-3P 334772-06-4P 334772-07-5P  
 334772-08-6P 334772-12-2P 334772-13-3P  
 334772-14-4P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (preparation of aminoimidazothiazoles, -pyrazoles, and -triazoles as analgesics)

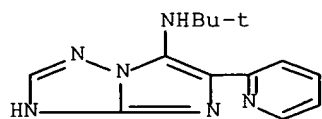
RN 334771-60-7 HCAPLUS

CN 1H-Imidazo[1,2-b][1,2,4]triazol-6-amine, N-(1,1-dimethylethyl)-5-(2-furanyl)- (9CI) (CA INDEX NAME)



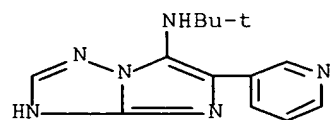
RN 334771-63-0 HCAPLUS

CN 1H-Imidazo[1,2-b][1,2,4]triazol-6-amine, N-(1,1-dimethylethyl)-5-(2-pyridinyl)- (9CI) (CA INDEX NAME)



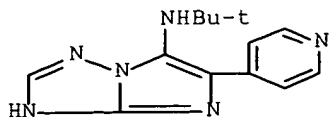
RN 334771-65-2 HCAPLUS

CN 1H-Imidazo[1,2-b][1,2,4]triazol-6-amine, N-(1,1-dimethylethyl)-5-(3-pyridinyl)- (9CI) (CA INDEX NAME)



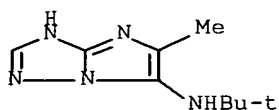
RN 334771-66-3 HCAPLUS

CN 1H-Imidazo[1,2-b][1,2,4]triazol-6-amine, N-(1,1-dimethylethyl)-5-(4-pyridinyl)- (9CI) (CA INDEX NAME)



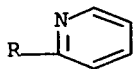
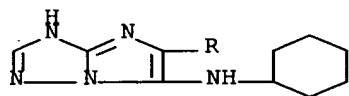
RN 334771-68-5 HCAPLUS

CN 1H-Imidazo[1,2-b][1,2,4]triazol-6-amine, N-(1,1-dimethylethyl)-5-methyl-  
(9CI) (CA INDEX NAME)



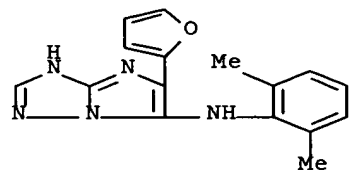
RN 334771-70-9 HCAPLUS

CN 1H-Imidazo[1,2-b][1,2,4]triazol-6-amine, N-cyclohexyl-5-(2-pyridinyl)-  
(9CI) (CA INDEX NAME)



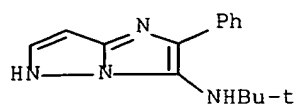
RN 334771-77-6 HCAPLUS

CN 1H-Imidazo[1,2-b][1,2,4]triazol-6-amine, N-(2,6-dimethylphenyl)-5-(2-furanyl)- (9CI) (CA INDEX NAME)



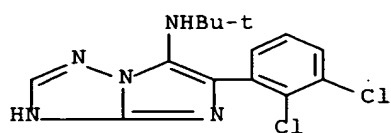
RN 334771-83-4 HCAPLUS

CN 5H-Imidazo[1,2-b]pyrazol-3-amine, N-(1,1-dimethylethyl)-2-phenyl- (9CI)  
(CA INDEX NAME)



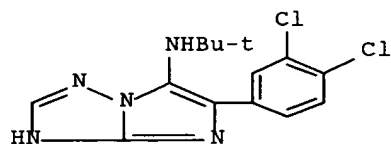
RN 334771-86-7 HCAPLUS

CN 1H-Imidazo[1,2-b][1,2,4]triazol-6-amine, 5-(2,3-dichlorophenyl)-N-(1,1-dimethylethyl)- (9CI) (CA INDEX NAME)



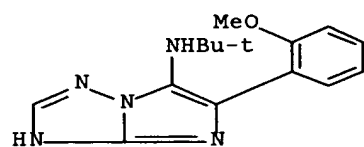
RN 334771-88-9 HCAPLUS

CN 1H-Imidazo[1,2-b][1,2,4]triazol-6-amine, 5-(3,4-dichlorophenyl)-N-(1,1-dimethylethyl)- (9CI) (CA INDEX NAME)



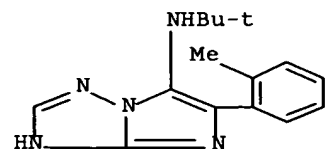
RN 334771-90-3 HCAPLUS

CN 1H-Imidazo[1,2-b][1,2,4]triazol-6-amine, N-(1,1-dimethylethyl)-5-(2-methoxyphenyl)- (9CI) (CA INDEX NAME)



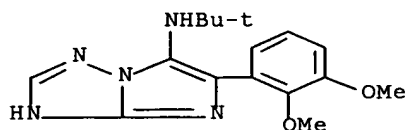
RN 334771-93-6 HCAPLUS

CN 1H-Imidazo[1,2-b][1,2,4]triazol-6-amine, N-(1,1-dimethylethyl)-5-(2-methylphenyl)- (9CI) (CA INDEX NAME)



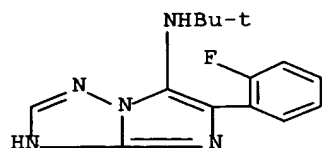
RN 334771-95-8 HCAPLUS

CN 1H-Imidazo[1,2-b][1,2,4]triazol-6-amine, 5-(2,3-dimethoxyphenyl)-N-(1,1-dimethylethyl)- (9CI) (CA INDEX NAME)



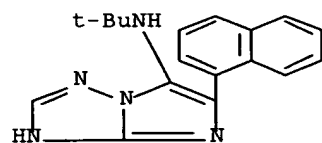
RN 334772-02-0 HCAPLUS

CN 1H-Imidazo[1,2-b][1,2,4]triazol-6-amine, N-(1,1-dimethylethyl)-5-(2-fluorophenyl)- (9CI) (CA INDEX NAME)



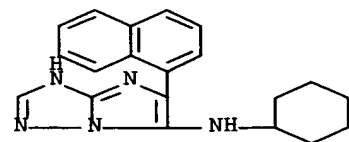
RN 334772-04-2 HCAPLUS

CN 1H-Imidazo[1,2-b][1,2,4]triazol-6-amine, N-(1,1-dimethylethyl)-5-(1-naphthalenyl)- (9CI) (CA INDEX NAME)



RN 334772-05-3 HCAPLUS

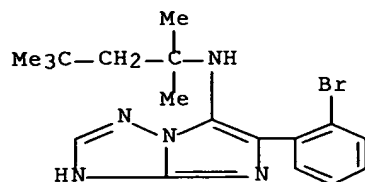
CN 1H-Imidazo[1,2-b][1,2,4]triazol-6-amine, N-cyclohexyl-5-(1-naphthalenyl)- (9CI) (CA INDEX NAME)



RN 334772-06-4 HCAPLUS

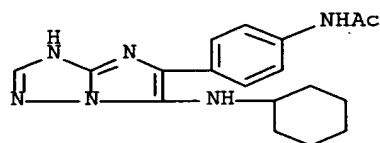
CN 1H-Imidazo[1,2-b][1,2,4]triazol-6-amine, 5-(2-bromophenyl)-N-(1,1,3,3-tetramethylbutyl)- (9CI) (CA INDEX NAME)





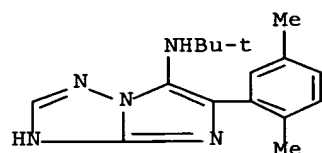
RN 334772-07-5 HCAPLUS

CN Acetamide, N-[4-[6-(cyclohexylamino)-1H-imidazo[1,2-b][1,2,4]triazol-5-yl]phenyl]- (9CI) (CA INDEX NAME)



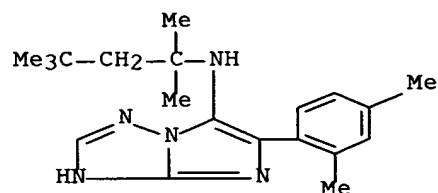
RN 334772-08-6 HCAPLUS

CN 1H-Imidazo[1,2-b][1,2,4]triazol-6-amine, N-(1,1-dimethylethyl)-5-(2,5-dimethylphenyl)- (9CI) (CA INDEX NAME)



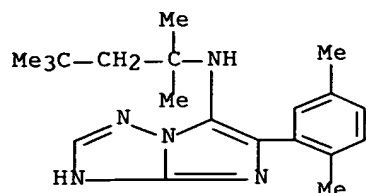
RN 334772-12-2 HCAPLUS

CN 1H-Imidazo[1,2-b][1,2,4]triazol-6-amine, 5-(2,4-dimethylphenyl)-N-(1,1,3,3-tetramethylbutyl)- (9CI) (CA INDEX NAME)



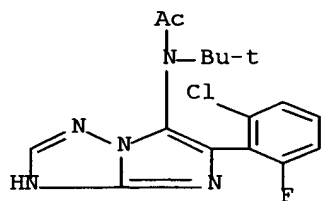
RN 334772-13-3 HCAPLUS

CN 1H-Imidazo[1,2-b][1,2,4]triazol-6-amine, 5-(2,5-dimethylphenyl)-N-(1,1,3,3-tetramethylbutyl)- (9CI) (CA INDEX NAME)



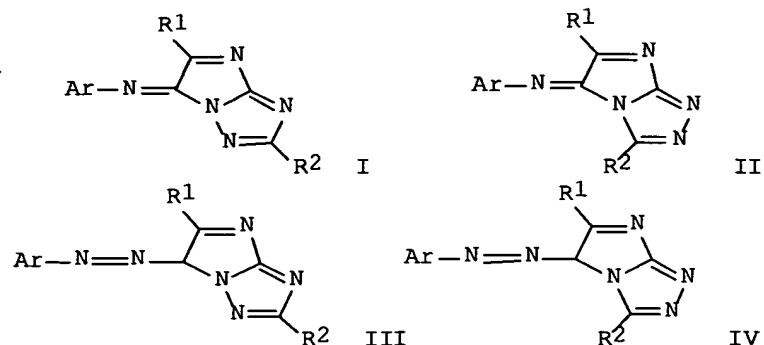
RN 334772-14-4 HCAPLUS

CN Acetamide, N-[5-(2-chloro-6-fluorophenyl)-1H-imidazo[1,2-b][1,2,4]triazol-6-yl]-N-(1,1-dimethylethyl)- (9CI) (CA INDEX NAME)



L6 ANSWER 8 OF 8 HCAPLUS COPYRIGHT 2005 ACS on STN  
 ACCESSION NUMBER: 2000:232650 HCAPLUS Full-text  
 DOCUMENT NUMBER: 132:266590  
 TITLE: Imidazotriazole and azomethine-based ink-jet printing  
 ink with good image formation  
 INVENTOR(S): Kamio, Takayoshi  
 PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 14 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2000103996	A2	20000411	JP 1998-273961	19980928
PRIORITY APPLN. INFO.: GI			JP 1998-273961	19980928



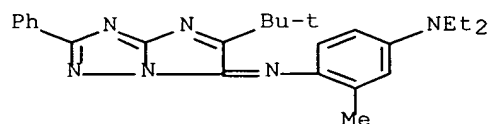
AB The ink is prepared from I, II, III and/or IV (R1, R2 = H, monovalent substitute; Ar = C5-6 members aromatic ring and/or heterocyclic ring). Thus, an oily ink was made from di-Et phthalate 30, diisopropyl adipate 44, N,N-diethyldodecaneamide 20 and I (R1 = tert-Bu; R2 = C6H5; Ar = p-diethylamino-o-tolyl).

IT **162753-23-3 162753-34-6 263159-97-3**  
**263159-98-4 263159-99-5 263160-00-5**

RL: TEM (Technical or engineered material use); USES (Uses)  
 (imidazotriazole and azomethine-based ink-jet printing ink with good image formation)

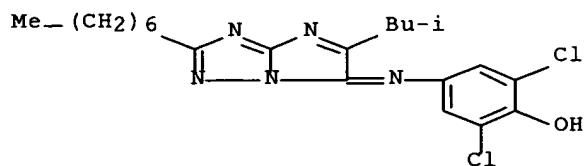
RN 162753-23-3 HCAPLUS

CN 1,4-Benzenediamine, N1-[5-(1,1-dimethylethyl)-2-phenyl-6H-imidazo[1,2-b][1,2,4]triazol-6-ylidene]-N4,N4-diethyl-2-methyl- (9CI) (CA INDEX NAME)



RN 162753-34-6 HCAPLUS

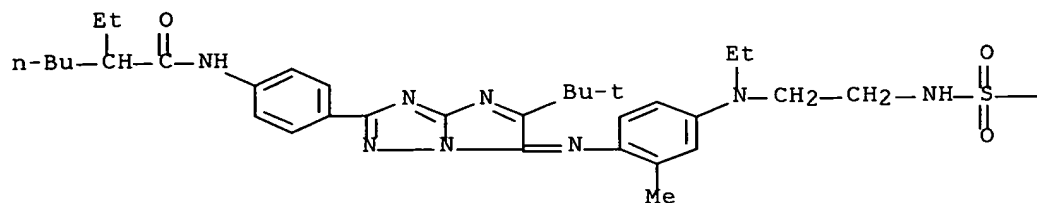
CN Phenol, 2,6-dichloro-4-[[2-heptyl-5-(2-methylpropyl)-6H-imidazo[1,2-b][1,2,4]triazol-6-ylidene]amino]- (9CI) (CA INDEX NAME)



RN 263159-97-3 HCAPLUS

CN Hexanamide, N-[4-[5-(1,1-dimethylethyl)-6-[[4-[ethyl[2-[(methylsulfonyl)amino]ethyl]amino]-2-methylphenyl]imino]-6H-imidazo[1,2-b][1,2,4]triazol-2-yl]phenyl]-2-ethyl- (9CI) (CA INDEX NAME)

PAGE 1-A

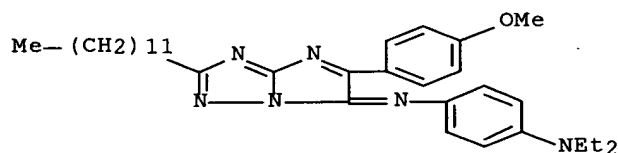


PAGE 1-B

—Me

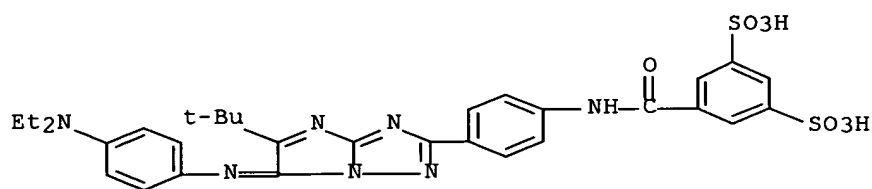
RN 263159-98-4 HCAPLUS

CN 1,4-Benzenediamine, N'-[2-dodecyl-5-(4-methoxyphenyl)-6H-imidazo[1,2-b][1,2,4]triazol-6-ylidene]-N,N-diethyl- (9CI) (CA INDEX NAME)



RN 263159-99-5 HCAPLUS

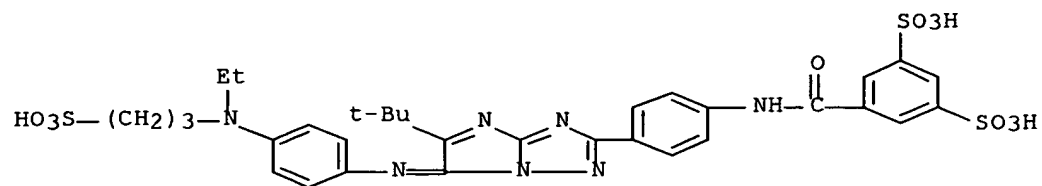
CN 1,3-Benzenedisulfonic acid, 5-[[[4-[6-[[4-(diethylamino)phenyl]imino]-5-(1,1-dimethylethyl)-6H-imidazo[1,2-b][1,2,4]triazol-2-yl]phenyl]amino]carbonyl]-, disodium salt (9CI) (CA INDEX NAME)



● 2 Na

RN 263160-00-5 HCAPLUS

CN 1,3-Benzenedisulfonic acid, 5-[[[4-[5-(1,1-dimethylethyl)-6-[[4-[ethyl(3-sulfopropyl)amino]phenyl]imino]-6H-imidazo[1,2-b][1,2,4]triazol-2-yl]phenyl]amino]carbonyl]-, trisodium salt (9CI) (CA INDEX NAME)



● 3 Na

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